

SEQUENCE LISTING

<110> Bayer AG

5 <120> Methods for Identifying Fungicides

<130> Le A 36 055

<160> 2

10 <170> PatentIn version 3.1

<210> 1

15 <211> 1020

<212> DNA

<213> Ustilago maydis

20 <220>

<221> CDS

25 <222> (1)..(1017)

<223>

<400> 1

30 atg caa tcc agg ctt ctc tct ctg gtt tca tcc cat ctt gtg tct aag 48  
Met Gln Ser Arg Leu Leu Ser Leu Val Ser Ser His Leu Val Ser Lys  
1 5 10 15

35 cgc tgt ttc atc gct cgc agt gct gcc ctt gcg ccg ctt ctc ctt cac 96  
Arg Cys Phe Ile Ala Arg Ser Ala Ala Leu Ala Pro Leu Leu Leu His  
20 25 30

40 ccc caa cgt cta cgt ctc act tgc cct cgc tcc ttt tct tct caa caa 144  
Pro Gln Arg Leu Arg Leu Thr Cys Pro Arg Ser Phe Ser Ser Gln Gln  
35 40 45

tct ggc cca cgc aag atg gct tct tcc aac gct acc aac agt acc agt 192  
Ser Gly Pro Arg Lys Met Ala Ser Ser Asn Ala Thr Asn Ser Thr Ser  
50 55 60

45 gcc gcc agt gct gcc aac acc aac tcg tct gct ttc aag agt gcc gaa 240

5  
10  
15  
20  
25  
30  
35  
40  
45

	ggc ggc gtc gtt aca gat aat ggc aac ttt tgc atc gat gct ccc ttc	816
	Gly Pro Val Val Thr Asp Asn Gly Asn Phe Cys Ile Asp Ala Pro Phe	
	260 265 270	
5	ccc gaa gca cag atg aag gat ccc tct gat ttg ctc aag cgt atc aag	864
	Pro Glu Ala Gln Met Lys Asp Pro Ser Asp Leu Leu Lys Arg Ile Lys	
	275 280 285	
10	ttg ctc acc ggt gta ctt gag gtc ggt ctg ttt tgc aac att tgc aag	912
	Leu Leu Thr Gly Val Leu Glu Val Gly Leu Phe Cys Asn Ile Cys Lys	
	290 295 300	
15	tcc gcc tac ttt ggc aac gat gac ggc acc atc acc atc aaa acc gcc	960
	Ser Ala Tyr Phe Gly Asn Asp Asp Gly Thr Ile Thr Ile Lys Thr Ala	
	305 310 315 320	
20	gcc gga gat gtg caa gag ggc gtc cac ttt gac gtc tcc aag gcg cct	1008
	Ala Gly Asp Val Gln Glu Gly Val His Phe Asp Val Ser Lys Ala Pro	
	325 330 335	
25	gca aca gca taa	1020
	Ala Thr Ala	
30	<210> 2	
	<211> 339	
	<212> PRT	
	<213> Ustilago maydis	
35	<400> 2	
40	Met Gln Ser Arg Leu Leu Ser Leu Val Ser Ser His Leu Val Ser Lys	
	1 5 10 15	
45	Arg Cys Phe Ile Ala Arg Ser Ala Ala Leu Ala Pro Leu Leu Leu His	
	20 25 30	

	Pro Gln Arg Leu Arg Leu Thr Cys Pro Arg Ser Phe Ser Ser Gln Gln	
	35	40 45
5	Ser Gly Pro Arg Lys Met Ala Ser Ser Asn Ala Thr Asn Ser Thr Ser	
	50	55 60
10	Ala Ala Ser Ala Ala Asn Thr Asn Ser Ser Ala Phe Lys Ser Ala Glu	
	65	70 75 80
15	Leu Ala Ala Leu Ser Gly Val Glu Ala Ala Lys Arg Ala Ala Ala Tyr	
	85	90 95
20	Ala Ala Val Asp Asn His Val Lys Pro Gln His Glu Ile Ile Gly Ile	
	100	105 110
25	Gly Ser Gly Ser Thr Val Pro Tyr Val Val Glu Arg Ile Ala Gln Gln	
	115	120 125
30	Gly Pro Ala Val Asn Ala Lys Arg Trp Phe Val Pro Thr Gly Phe Gln	
	130	135 140
35	Ser Arg Glu Leu Ile Ile Asn Ala Gly Leu Arg Leu Gly Asp Val Asp	
	145	150 155 160
40	Ser Phe Pro Ser Ile Asp Val Thr Ile Asp Gly Ala Asp Glu Val Asp	
	165	170 175
45	Asn Ala Leu Asn Cys Ile Lys Gly Gly Gly Ala Cys His Leu Arg Glu	
	180	185 190
50	Lys Val Leu Ala Glu Ala Ala Asn Glu Phe Val Val Val Ala Asp Tyr	
	195	200 205
55	Arg Lys Asn Gly Ser Gln Leu Gly Thr Lys Trp Leu Gln Gly Val Pro	
	210	215 220

5 Ile Glu Val Ala Pro Phe Ala Tyr Ala Lys Val Leu Gln Asn Leu Lys  
225 230 235 240

Lys Met Gly Ser Asp Lys Ala Val Leu Arg Met Gly Lys Ala Lys Ala  
245 250 255

10 Gly Pro Val Val Thr Asp Asn Gly Asn Phe Cys Ile Asp Ala Pro Phe  
260 265 270

15 Pro Glu Ala Gln Met Lys Asp Pro Ser Asp Leu Leu Lys Arg Ile Lys  
275 280 285

20 Leu Leu Thr Gly Val Leu Glu Val Gly Leu Phe Cys Asn Ile Cys Lys  
290 295 300

25 Ser Ala Tyr Phe Gly Asn Asp Asp Gly Thr Ile Thr Ile Lys Thr Ala  
305 310 315 320

Ala Gly Asp Val Gln Glu Gly Val His Phe Asp Val Ser Lys Ala Pro  
325 330 335

30 Ala Thr Ala